



North Carolina Department of Environment and Natural Resources

Dexter R. Matthews, Director

Division of Waste Management

Michael F. Easley, Governor
William G. Ross Jr., Secretary

February 16, 2005

Ms. Jennifer Wendel
NC Site Management Section
US EPA Region IV Waste Division
61 Forsyth Street, 11th Floor
Atlanta, GA 30303

Subject: Pre-CERCLIS Site Screening
Industrial Metal Alloy Site
Winston-Salem, Forsyth County, NC

Dear Ms. Wendel,

The following information obtained during a Pre-CERCLIS Site Screening has established that the above subject site should be added to CERCLIS for further assessment under CERCLA.

Industrial Metal Alloy (site) is located at 20 E. Acadia Avenue in Winston-Salem, Forsyth County, North Carolina. The areas adjacent to the site are primarily residential with some commercial and light industrial properties in the vicinity (Fig. 1). The site occupies 1.06 acres, which includes one main warehouse building, an asphalt parking/loading lot, a fenced storage area, and an unfenced wooded area on the southern portion of the property (Fig. 2). The current owner of the property is the NC School of the Arts Foundation who utilizes the on-site warehouse for storage. The geographic coordinates for the site are 36.0716° North Latitude and 80.2395° West Longitude (Ref. 1).

On September 9, 2004, Jeanette Stanley of the NC Superfund Section recommended the site to be screened for possible addition to CERCLIS. This decision was based on an off-site reconnaissance performed on August 26, 2004, along with her review of the *NC Directory of Manufacturing Firms* and Sanborn Fire Insurance Maps. The information obtained suggested that the facility operated as a non-ferrous metal operations facility from 1950 or earlier and contained a furnace and a melting pot (Fig. 3)(Ref. 2). On November 9, 2004, the NC Superfund Section performed an additional off-site reconnaissance that included a windshield survey of the current property conditions, nearby residential areas, and the surface water pathway. Field notes and digital photographs were collected for documentation purposes (Ref. 3).

On December 14, 2004, the NC Superfund Section performed a site screening-sampling event. Numerous piles of metal debris, a few unidentified 55-gallon drums, and a slag pile were observed during the site screening. The slag pile consisted mainly of soil and slag boulders, and covered an area approximately 30'x30'x10' (Fig. 4)(Photos 1-3).

During the sampling event, the NC Superfund Section collected three surface soils and two sediment samples from the site and adjacent unnamed tributary (Fig. 4). In addition, x-ray fluorescence (XRF) meter readings were collected from various locations throughout the site (Ref. 3). Significant concentrations of several inorganic contaminants (lead, arsenic, chromium, copper) were detected using the XRF meter. Surface soil samples submitted to the NC State Public Health Laboratory revealed concentrations of lead (113,821 mg/kg), arsenic (68 mg/kg), chromium (151 mg/kg), and copper (10,181 mg/kg). Sediment samples collected from the unnamed tributary contained similar contaminants and concentrations with lead (1,291 mg/kg), arsenic (16 mg/kg), chromium (106 mg/kg), and copper (3,317 mg/kg) (Ref. 4).

The nearest residence is located adjacent to the site along the western edge of the property. In addition, five residences are located just south of the site across the unnamed tributary (Fig. 2)(Photos 5, 6). Obvious signs of trespassing (graffiti and a tree house) were observed at the back of the property (Ref. 3)(Photos 7, 8). Nearby population data within ¼ mile of the site was unknown at the time of this report.

The threat posed by on-site contamination to the groundwater pathway is considered to be minimal due to the fact that the site lies within the city limits and all of the residents within a 4-mile radius of the site are supplied drinking water from the City of Winston-Salem. The City of Winston-Salem obtains water from two surface water intakes, which are not located within a 4-mile radius of the site or within the 15-mile surface water pathway (Ref. 5).

The 15-mile surface water pathway includes an unnamed tributary, Salem Creek, Muddy Creek, and the Yadkin River. Stormwater runoff from the building and paved parking/storage areas flow to the south towards the rear of the property and into the unnamed tributary. Slag boulders are located in the unnamed tributary. There are no surface water intakes located along the 15-mile target distance limit (Ref. 5). Salem Creek and Muddy Creek are considered minimal fisheries, while the Yadkin River is used extensively for recreational fishing (Ref. 6). The nearest Hazard Ranking System (HRS) qualifying wetland frontage is located along Salem Creek approximately 6.7 miles downstream of the site.

Inorganic analytical results obtained during the site screening suggest that former smelting operations at the site have heavily contaminated certain areas behind the facility. Due to the number of nearby residences, the fact that access to the contamination is not restricted, and the uncertainty about lateral extent of the contamination, the NC Superfund Section requests that the site be added to CERCLIS for further assessment under CERCLA.

Please contact me if you have any questions. I can be reached at (919) 733-2801 ext. 298 or via e-mail at mike.deaton@ncmail.net.



Michael S. Deaton, P.E.
Environmental Engineer
Site Evaluation and Removal Branch
NC Superfund Section

Sincerely,

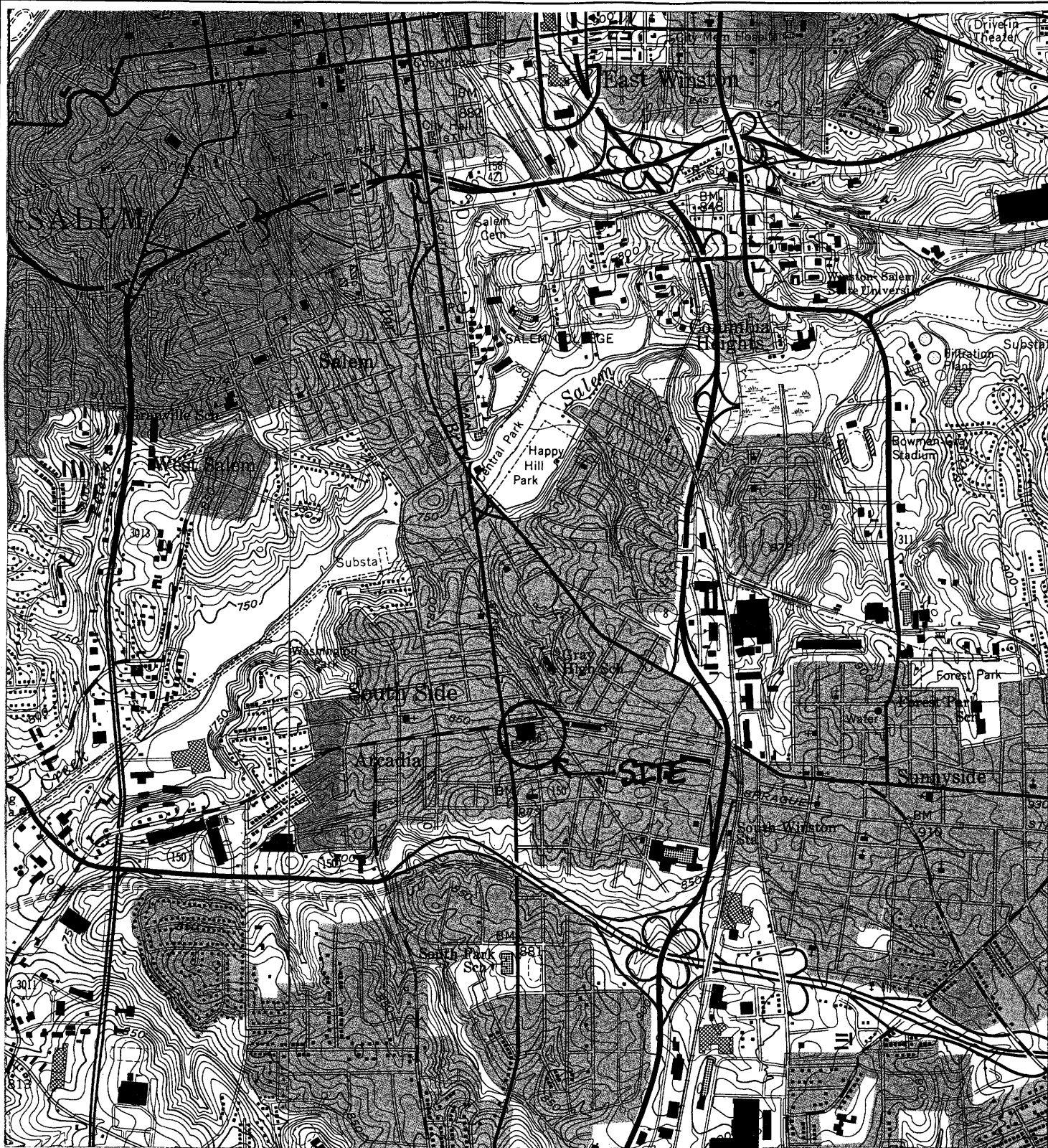


Jim Bateson, Head
Site Evaluation and Removal Branch
NC Superfund Section

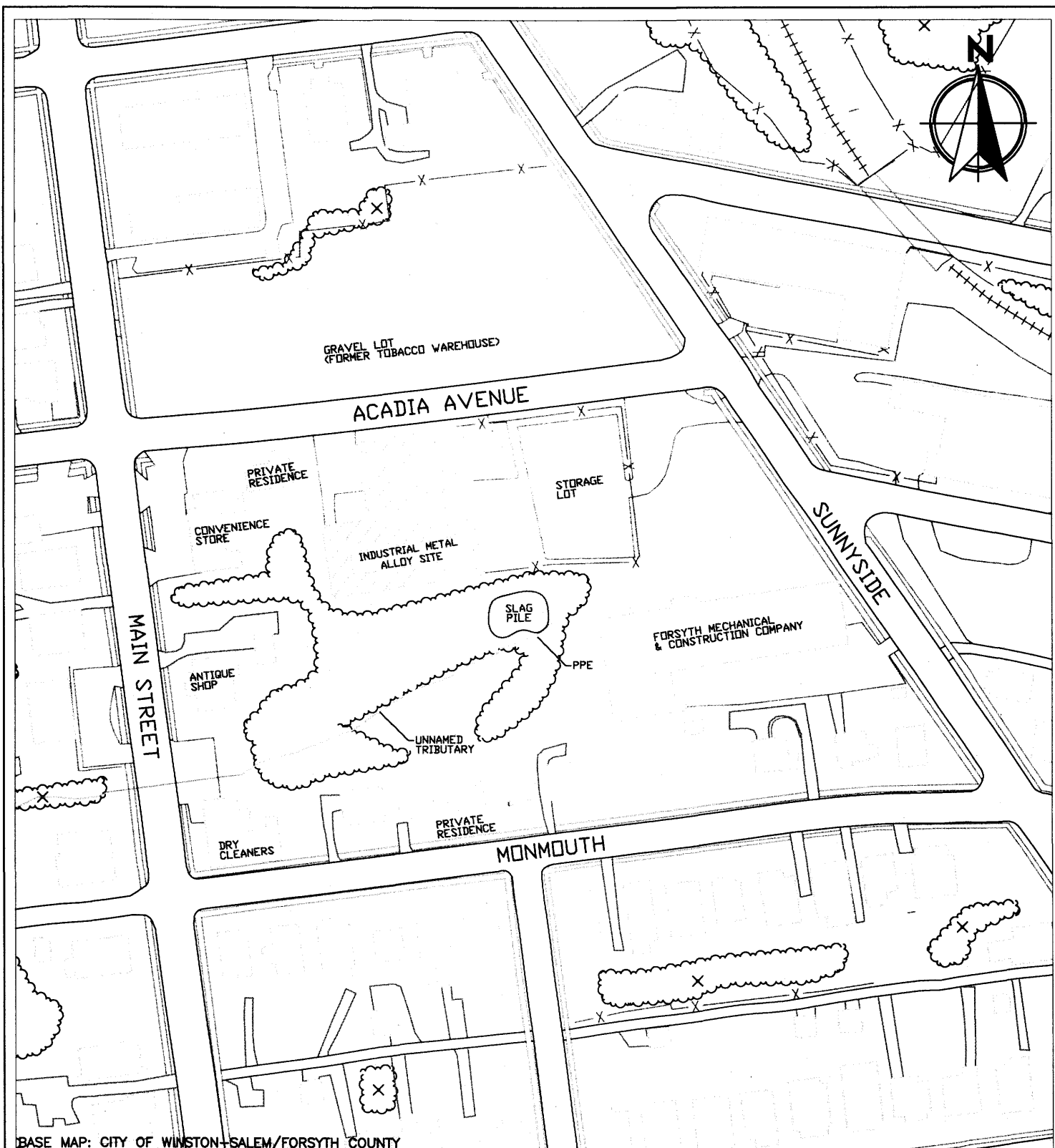
Attachments: Latitude/Longitude Calculation Sheet (Reference 1)
2004 Memorandum from Jeanette Stanley (Reference 2)
NC Superfund Section Field Notes (Reference 3)
Site Screening Analytical Data (Reference 4)
2004 Memorandum regarding Surface Water Intakes (Reference 5)
2004 Memorandum regarding Fishery Information (Reference 6)
Pre-CERCLIS Screening Assessment Checklist/Decision Form

cc: File
Jim Bateson
Donna Sexton, NC School of the Arts Foundation

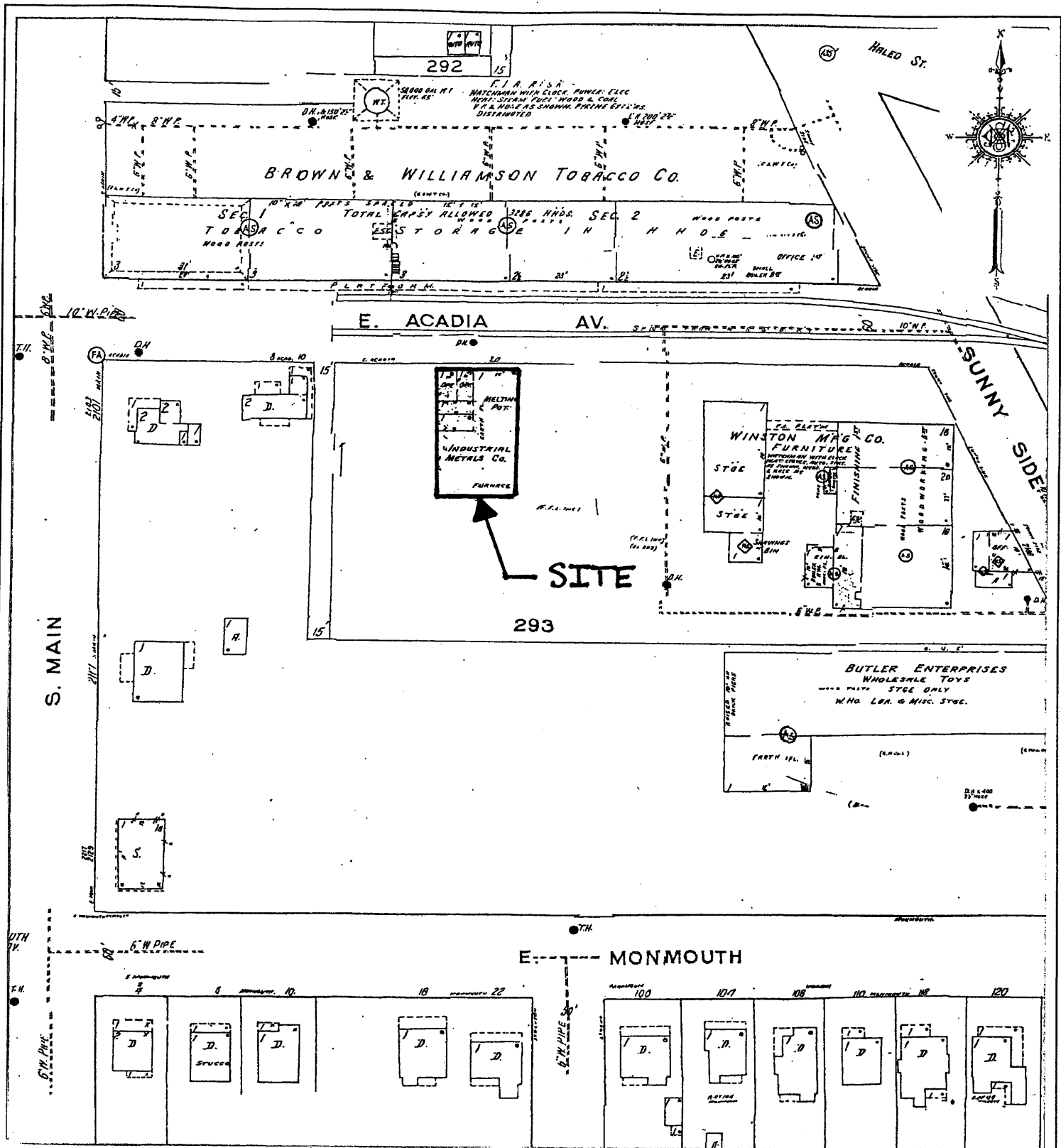
cc: (letter only)
Charlotte Jesneck



TITLE: SITE NAME: LOCATION: US EPA ID:	SITE VICINITY MAP	DRAWN BY: MSD
	INDUSTRIAL METAL ALLOY	SCALE: 1"=2000'
	WINSTON-SALEM, FORSYTH COUNTY, NC	DATE: 02/14/2005
	TBD	FIGURE: 1



TITLE: SITE LOCATION MAP SITE NAME: INDUSTRIAL METAL ALLOY LOCATION: WINSTON-SALEM, FORSYTH COUNTY, NC US EPA ID: TBD	DRAWN BY: MSD
	SCALE: 1"=150'
	DATE: 02/14/05
	FIGURE: 2



TITLE:	SANBORN MAP	DRAWN BY:	MSD
SITE NAME:	INDUSTRIAL METAL ALLOY	SCALE:	NTS
LOCATION:	WINSTON-SALEM, FORSYTH COUNTY, NC	DATE:	02/14/2005
US EPA ID:	TBD	FIGURE:	3



TITLE:

SAMPLE LOCATION MAP

DRAWN BY:

MSD

SITE NAME:

INDUSTRIAL METAL ALLOY

SCALE:

1"=100' (APPROX)

LOCATION:

WINSTON-SALEM, FORSYTH COUNTY, NC

DATE:

02/11/05

US EPA ID:

TBD

FIGURE:

4

PRE-CERCLIS SCREENING ASSESSMENT CHECKLIST/DECISION FORM

This checklist can assist the site investigator during the Pre-CERCLIS screening. It will be used to determine whether further steps in the site investigation process are required under CERCLA. Use additional sheets, if necessary.

Checklist Preparer: Michael S. Deaton 02/14/2005
 (Name/Title) (Date)
401 Oberlin Road, Raleigh, North Carolina 919-733-2801 x.298
 (Address) (Phone)
mike.deaton@ncmail.net
 (E-Mail Address)

Site Name: Industrial Metal Alloy

Previous Names (if any): _____

Site Location: 20 E. Acadia Avenue
 (Street)
Winston-Salem North Carolina 27127
 (City) (ST) (Zip)

Latitude: 36.0716° Longitude: 80.2395°

Complete the following checklist. If "yes" is marked, please explain below.

	YES	NO
1. Does the site already appear in CERCLIS?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Is the release from products that are part of the structure of, and result in exposure within, residential buildings or businesses or community structures?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Does the site consist of a release of a naturally occurring substance in its unaltered form, or altered solely through naturally occurring processes or phenomena, from a location where it is naturally found?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Is the release into a public or private drinking water supply due to deterioration of the system through ordinary use?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Is some other program actively involved with the site (i.e., another Federal, State, or Tribal program)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. Are the hazardous substances potentially released at the site regulated under a statutory exclusion (i.e., petroleum, natural gas, natural gas liquids, synthetic gas usable for fuel, normal application of fertilizer, release located in a workplace, naturally occurring, or regulated by the NRC, UMTRCA, or OSHA)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7. Are the hazardous substances potentially released at the site excluded by policy considerations (e.g., deferral to RCRA Corrective Action)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. Is there sufficient documentation that clearly demonstrates that there is no potential for a release that could cause adverse environmental or human health impacts (e.g., comprehensive remedial investigation equivalent data showing no release above ARARs, completed removal action, documentation showing that no hazardous substance releases have occurred, EPA approved risk assessment completed)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Please explain all "yes" answer(s), attach additional sheets if necessary: _____

.....

Site Determination:

☒ Enter the site into CERCLIS. Further assessment is recommended (explain below).

☐ The site is not recommended for placement into CERCLIS (explain below).

DECISION/DISCUSSION/RATIONALE:

Inorganic analytical results obtained during the site screening suggest that former smelting operations at the site have heavily contaminated certain areas behind the facility. Due to the number of nearby residences, the fact that access to the contamination is not restricted, and the uncertainty on the lateral extent of the contamination, the NC Superfund Section requests that the site be added to CERCLIS for further assessment under CERCLA.

Regional EPA Reviewer: _____

Print Name/Signature

_____ Date

State Agency/Tribe: _____

MICHAEL S. DEATON / Michael S. Deaton
Print Name/Signature

2/16/05
Date

REFERENCES

REFERENCE 1

LATITUDE AND LONGITUDE CALCULATION WORKSHEET #2

LI USING ENGINEER'S SCALE (1/60)

SITE NAME: Industrial Metal Alloy CERCLIS #: T.B.D.AKA: n.a. SSID: n.a.ADDRESS: 20 E. Acadia AvenueCITY: Winston-Salem STATE: NC ZIP CODE: 27127SITE REFERENCE POINT: Intersection of Acadia Avenue and South Main Street.USGS QUAD MAP NAME: Winston-Salem East, NC TOWNSHIP: - N/S RANGE: - E/WSCALE: 1 : 24,000 MAP DATE: 1987 SECTION: - 1/4 - 1/4 - 1/4MAP DATUM 1927 1983 (CIRCLE ONE) MERIDIAN: -

COORDINATES FROM LOWER RIGHT (SOUTHEAST) CORNER OF 7.5' MAP (attach photocopy)

LONGITUDE: 80 ° 7 ' 30.00 " LATITUDE: 36 ° 0 ' 0.00 "

COORDINATES FROM LOWER RIGHT (SOUTHEAST) CORNER OF 2.5' GRID CELL:

LONGITUDE: 80 ° 12 ' 30.00 " LATITUDE: 36 ° 2 ' 30.00 "

CALCULATIONS: LATITUDE (7.5' QUADRANGLE MAP)

A) NUMBER OF RULER GRADUATIONS FROM LATITUDE GRID LINE TO SITE REF POINT: 326

B) MULTIPLY (A) BY 0.3304 TO CONVERT TO SECONDS:

A X 0.3304 = 107.71 "C) EXPRESS IN MINUTES AND SECONDS (1' = 60") : 1 ' 47.71 "D) ADD TO STARTING LATITUDE: 36 ° 2 ' 30.00 " + 1 ' 47.71 "SITE LATITUDE: 36 ° 4 ' 17.71 "36.0716 °

CALCULATIONS: LONGITUDE (7.5' QUADRANGLE MAP)

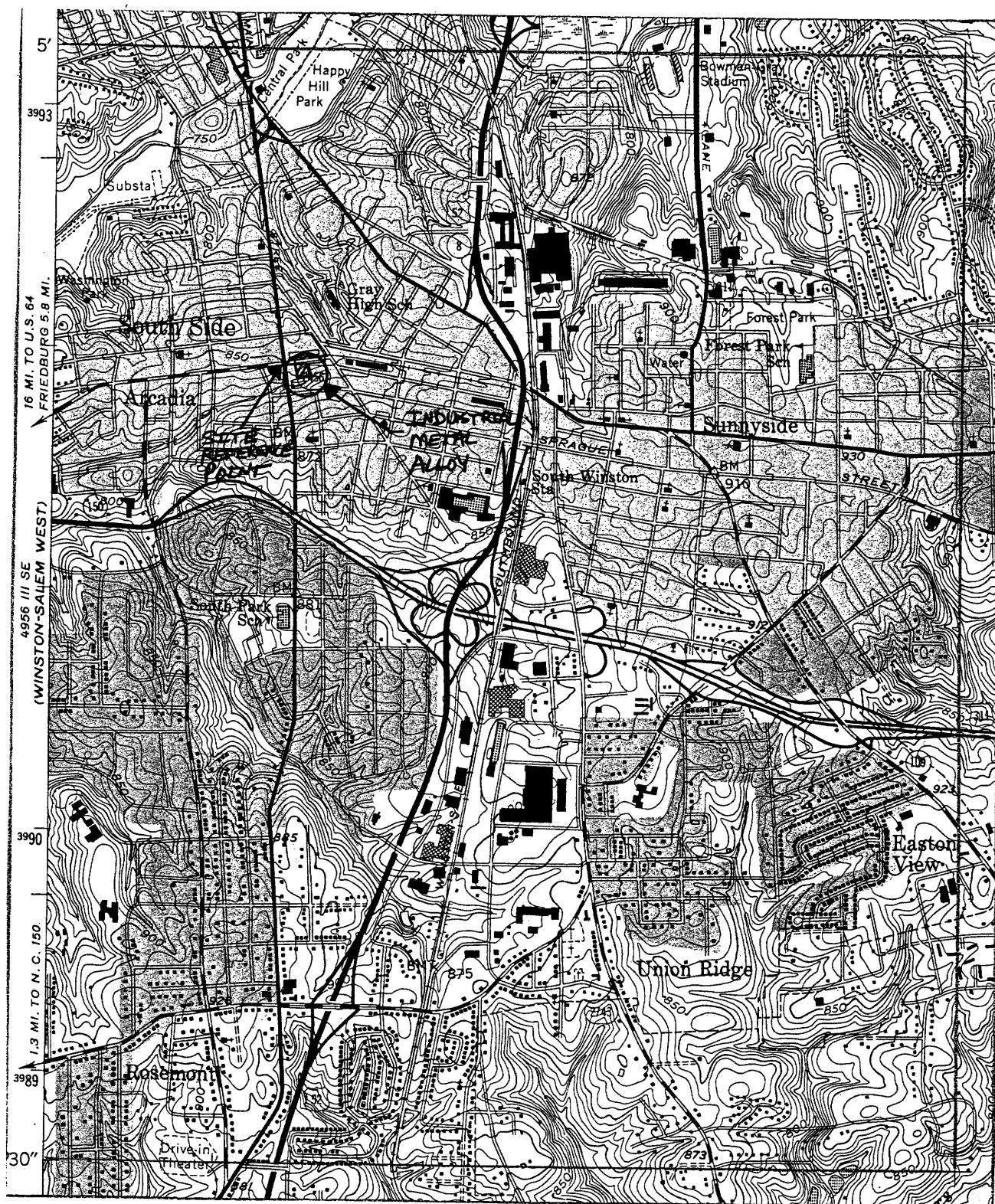
A) NUMBER OF RULER GRADUATIONS FROM RIGHT LONGITUDE LINE TO SITE REF POINT: 340

B) MULTIPLY (A) BY 0.3304 TO CONVERT TO SECONDS:

A X 0.3304 = 112.34 "C) EXPRESS IN MINUTES AND SECONDS (1' = 60") : 1 ' 52.34 "D) ADD TO STARTING LONGITUDE: 80 ° 12 ' 30.00 " + 1 ' 52.34 "SITE LONGITUDE: 80 ° 14 ' 22.34 "80.2395 °INVESTIGATOR: Michael S. Deaton DATE: 2/3/05

SITE NAME: Industrial Metal Alloy

NUMBER: T.B.D.



TOPOGRAPHIC MAP QUADRANGLE NAME: Winston-Salem East, NC SCALE: 1 : 24,000

COORDINATES FROM LOWER RIGHT (SOUTHEAST) CORNER OF 2.5' GRID CELL:

LATITUDE: 36 ° 2 ' 30.00 " LONGITUDE: 80 ° 12 ' 30.00 "
36.0417 ° 80.2083 °

REFERENCE 2

MEMO

DATE: September 9, 2004
TO: File
FROM: Jeanette Stanley, Environmental Chemist, NC Superfund Section
SUBJECT: Industrial Metal Alloy
20 E. Acadia Ave.
Winston-Salem, NC 27127-3062

Jeanette Stanley

Based on the following information, the Industrial Metal Alloy site may pose a soil exposure risk to nearby residents, and may have released site contaminants to the adjacent stream. A Site Screening is recommended to determine if the site should be listed under CERCLIS for further evaluation.

I reviewed the NC Directory of Manufacturing Firms (NC Department of Labor, Division of Statistics) dated 1956 (1958) and 1968. Both of these editions showed that Industrial Metal Alloy operated at 20 E. Acadia Ave. in Winston-Salem. I have not looked at more recent directories than the 1968 edition. The SIC Code used in the 1956 (1958) and 1968 directories indicates that the facility did non-ferrous metal operations. SIC Code 3356 is primarily used for metal recovery operations, such as recovering battery metal, and/or rolling, drawing and extruding of any non-ferrous metal, except for copper and aluminum. A very large automobile battery manufacturer has operated nearby for many years.

The 1917 Sanborn Fire Insurance Map shows that the property was used by Forsyth Manufacturing Co. (no finishing). The 1917 - 1950* map (Vol. 1A, sheet 94) shows that the facility was operated as Industrial Metal Alloy. This Sanborn map clearly shows a furnace and a melting pot. Copies of these maps have been provided to the site file. Based on this information, Industrial Metal Alloy operated from 1950 or earlier, and up to 1968 or later.

On August 26, 2004, Mike Deaton and I drove past the property. It appears abandoned. Eight photographs were taken, and these have been included in the file on this site. Junk metal sits in the eastern side of the lot. Access to this side of the site appears to be restricted by a chain link fence.

Adjacent property use includes an apparent residence at 10 Acadia, on the right or west of the site. Around the corner and along Main Street, between Acadia and Monmouth St. is a business called "Craft Cleaners" and an antique shop. There are a number of residences along Monmouth St., on both sides of the street. The residences directly behind Industrial Metal are adjacent to the stream draining the rear of the Industrial Metal Alloy property. Further west along Monmouth St, between Main St. and Sunnyside, is an old tar-papered building that appears to be another, smaller metal handling business shown on the Sanborn Fire Insurance Map. On the corner of Sunnyside Ave. and Acadia is Forsyth Mechanical and Construction. There is a telephone pole storage lot adjacent to and on the left, or east of Industrial Metal Alloy. Notes collected during the reconnaissance do not indicate if the pole storage lot is part of Forsyth Mechanical, or perhaps another business.

In order to determine if there are other regulatory interests on this property, I looked in the RCRA Federal Registry System database and saw no record of any site on Acadia. I also looked in the NC Inactive Sites database and saw no record of any site on Acadia. I have not touched base with NC Water Quality or Groundwater personnel to determine if there are state records on this site. The Forsyth County web site indicates that the property was deeded to the NC School of the Arts Foundation in 1995.



U.S. Department of Labor

Occupational Safety & Health Administration

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Advanced Search

SIC Description for 3356

Description for 3356: Rolling, Drawing, and Extruding Of Nonferrous Metals, Except

Division D: Manufacturing

Major Group 33: Primary Metal Industries

Industry Group 335: Rolling, Drawing, And Extruding Of Nonferrous

3356 Rolling, Drawing, and Extruding Of Nonferrous Metals, Except

Establishments primarily engaged in rolling, drawing, and extruding nonferrous metals other than copper and aluminum. The products of this industry are in the form of basic shapes, such as plate, sheet, strip, bar, and tubing. Establishments primarily engaged in recovering nonferrous metals and alloys from scrap or dross are classified in Industry 3341; those manufacturing gold, silver, tin, and other foils, except aluminum, are classified in Industry 3497; and those manufacturing aluminum foil are classified in Industry 3353.

- Battery metal
- Britannia metal, rolling and drawing
- Extruded shapes, nonferrous metals and alloys, except copper and
- Gold and gold alloy bars, sheets, strip, and tubing
- Gold rolling and drawing
- Lead and lead alloy bars, pipe, plates, rods, sheets, strip, and tubing
- Lead rolling, drawing, and extruding
- Magnesium and magnesium alloy bars, rods, shapes, sheets, strip, and
- Magnesium rolling, drawing, and extruding
- Nickel and nickel alloy pipe, plates, sheets, strips, and tubing
- Nonferrous rolling, drawing, and extruding except copper and
- Platinum and platinum alloy sheets and tubing
- Platinum-group metals rolling, drawing, and extruding
- Silver and silver alloy bars, rods, sheets, strip, and tubing
- Silver rolling and drawing
- Solder wire, bar acid core and rosin core
- Tin and tin alloy bars, pipe, rods, sheets, strip, and tubing
- Tin rolling and drawing
- Titanium and titanium alloy bars, rods, billets, sheets, strip, and
- Titanium from sponge
- Tungsten basic shapes
- Welding rods
- Wire, nonferrous except copper and aluminum made in rolling mills
- Zinc and zinc alloy bars, plates, pipe, rods, sheets, tubing, and wire
- Zinc rolling, drawing, and extruding
- Zirconium and zirconium alloy bars, rods, billets, sheets, strip, and

[[SIC Search](#) | [Division Structure](#) | [Major Group Structure](#) | [OSHA Standards Cited](#)]

REFERENCE 3

INDUSTRIAL METAL ALLOY

11/9/04

US EPA ID: TBD

80 E. ACADEMIA AVE

WINSTON-SALEM, FORKTH CO, NC

OFF-SITE RECONNAISSANCE

PROJECT LEADER: MIKE DEARON

PAGE 1 OF 3

Mike Dearon

INDUSTRIAL METAL ALLOY 11/9/04



PAGE 2 OF 3

M. J. Gator

INDUSTRIAL METAL ALLOY 11/9/04⁵

13:35 - ARRIVED AT INDUSTRIAL METAL ALLOY. DID NOT GO ON SITE. NO SIGN OF OPERATION. PROPERTY SEEMS TO BE ABANDONED. NEAREST RESIDENCE IS LOCATED ADJACENT TO THE SITE. IT'S ADDRESS IS 10 ACADEMIA AVE. NUMEROUS RESIDENCES NEAR THE SITE.

- SCATTERED METAL AND VARIOUS DEBRIS OUTSIDE OF BUILDING. FOUR (4) DUMPS WERE LOCATED ON SITE. MAINTAINED FENCE ALONG PROPERTY BOUNDARY TO THE EAST. NO FENCE ON WEST SIDE OF PROPERTY.

- WATER LINES SUPPLYING DRINKING WATER TO NEAR RESIDENTS.

14:23 - DEPARTED WINSTON-SALEM.

16:45 - ARRIVED AT OFFICE.

- END OF DAY -

PAGE 3 OF 3

M. J. Gator

INDUSTRIAL METAL ALLEY 12/14/04

XRF LOCATION DESCRIPTIONSID #
READING432 SURFACE SOIL BELOW SLAG ROCK
(16,000 ppm Pb)433 SCOURED BANK AT TOU OF FILL
(8" RES CEMENT)

434 SAME LOCATION AS 433

435 WITHIN
1-2 FEET OF 433/434. (5,600 ppm Pb)436 ALONG EDGE OF STREAM BANK
APPROXIMATELY 50 FEET DOWNSTREAM
OF PILE. (2,150 ppm Pb)

437 SLAG BOUNDER (3,402 ppm Pb)

438 0-6" SAMPLE AT TOP OF WASTE PILE
(RED CLAY SOIL SOMEWHAT MOIST).
(1677 ppm Pb)439 OVERLAND FLOW DITCH SAMPLE
(CLAY SOIL) (22,400 ppm Pb)

PAGE 1 OF 5

M. J. Benton

INDUSTRIAL METAL ALLEY 12/14/04
(SITE SCREENING)

6:00 - DEPARTED RENO

8:15 - ARRIVED AT SITE. MARKED THE
PERIMETER OF THE PROPERTY TO
DETERMINE POSSIBLE SOURCE
AREAS.- PORTION OF SITE IS COMPLETELY
FENCED. THIS AREA CONTAINS
SCRAP METAL AND FIVE DRUMS.
NO IDENTIFICATION FINDING ON
DRUMS.8:30 - BEGAN COLLECTING XRF MEASUREMENTS
NEAR WASTE PILE. WASTE PILE
IS COMPOSED OF RUBBLE WITH
SIGNIFICANT % (20-30%) SLAG
PIECES (1.5' DIA)9:05 - BEGAN COLLECTING SOIL SAMPLES
FROM WASTE PILE AREA. HARRY
ZINN COLLECTED SAMPLES 432 &
435. AREA OF PERIMETER WAS CALCULATED
USING GPS.

PAGE 2 OF 5

M. J. Benton

INDUSTRIAL METAL AREA 12/14/04

* REVISIT XRF SAMPLE ID 2 PPM Pb

READING #	Conc	VERIFICATION
✓ 431	BLANK	* VERIFICATION
✓ 432	16,000 ppm Pb	* 10,200 ppm Pb
✓ 433	764 ppm Pb	
✓ 434	816 ppm Pb	* 967 ppm Pb
X 435	Ave of previous readings. WILL NOT BE USED AS QUANTITY DATA.	
✓ 436	153.2 ppm Pb	
✓ 437	3403 ppm Pb	
✓ 438	1474 ppm Pb	
X 439	Ave of previous readings. DO NOT USE DATA.	* 34,000 ppm Pb
✓ 440	22,400 ppm Pb; RETRACT w/ 439.	
✓ 441	SECOND DATA SAMPLE NEAR CRK. (615 ppm Pb).	
✓ 442	NE POINT OF READINGS (2331 ppm Pb). APPROX. 6" BGS & 20' SOUTH OF BGS.	
X 443	Ave of readings, DO NOT USE DATA.	
✓ 444	NW POINT OF BLDG (SEE SECTOR) (4,250 ppm Pb)	
✓ 445	SMALL PILE (Pb 513 ppm)	

Mike for
Donor

INDUSTRIAL METAL AREA 12/14/04

10:00 SEDIMENT SAMPLE COLLECTED AT PPE BY HARVEY ZITMAN. (GRAY SANDY SOIL. (JMA-001-SD))

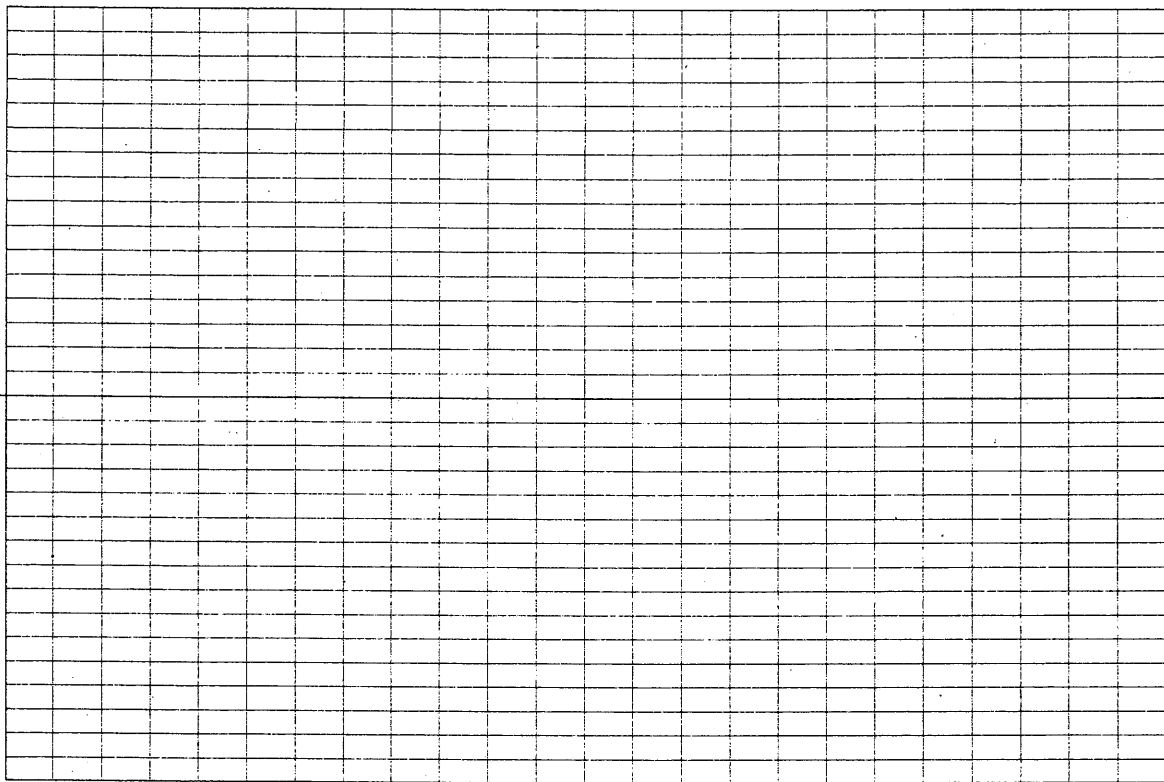
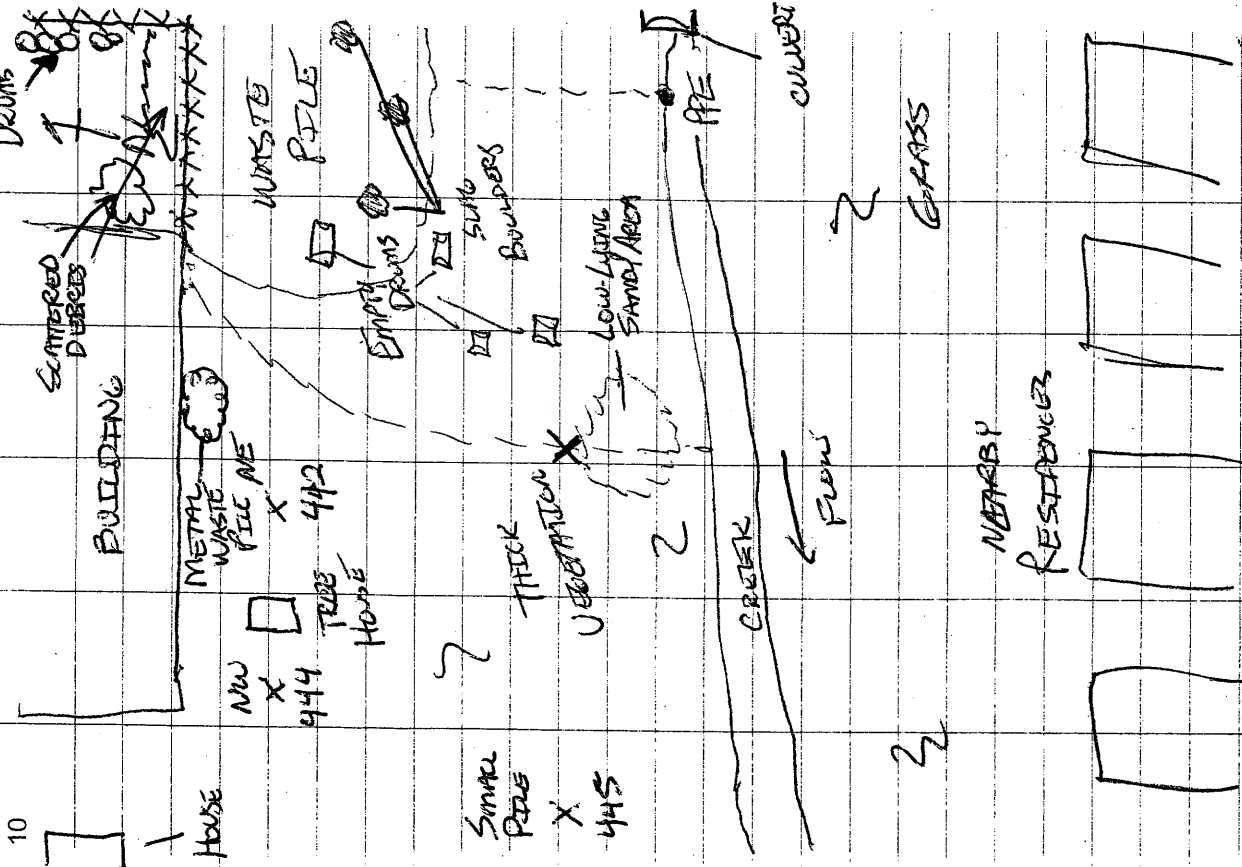
10:10 - BACKED UP SEDIMENT SAMPLE COLLECTED BY HARVEY ZITMAN. (JMA-002-SD)

10:15 - OVERLAND FLOW SOIL SAMPLE COLLECTED BY HARVEY ZITMAN. SAMPLE ID: JMA-439-SS.

10:45 - PACKED UP SAMPLING EQUIPMENT, XRF METER, AND COLLECTED ADDITIONAL PHOTOS. DEPARTED SITE AT APPROXIMATELY 11:00.

— END OF DAY —

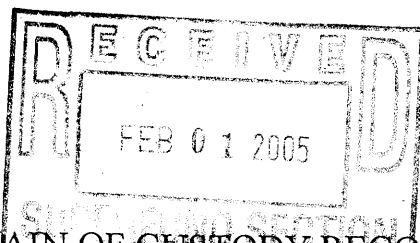
Mike for
Donor



REFERENCE 4

NCDEHNR
Division of Waste Management
☒ Superfund Section
☐ Hazardous Waste Section
☐ Solid Waste Section

Organics Lab: _____
Inorganics Lab: ☒



CHAIN OF CUSTODY RECORD

Project Name: <u>INDUSTRIAL METAL ALLOY</u>		Sampled By: <u>MIKE DEATON</u>	
Site ID # (NCD#) <u>TBD</u>		Sampler ID <u>—</u>	
Location: <u>WINSTON-SALEM</u>		Telephone: <u>(919) 733-2801 x.298</u>	
Address: <u>20 E. ACADIA AVE.</u>		Date Sampled: <u>12/14/04</u>	
		Time Sampled: <u>—</u>	
Sample Types: Soil <u>X</u> Water <u>—</u> Waste <u>—</u> Other <u>—</u>			
Remarks: <u>XRF METER DISPLAYED HIGH CONCENTRATIONS OF LEAD, COPPER, ARSENIC, etc.</u>			
Field Sample Numbers <u>51064 51065 51066 51067 51068</u>			
Relinquished By: <u>Michael S. Denton</u>		Date: <u>12/15/04</u>	Time: <u>13:35</u>
(Signature)			
Received By: <u>Stacy C. Dean</u>		Date: <u>12-15-04</u>	Time: <u>13:35</u>
(Signature)			
Relinquished By: _____		Date: _____	Time: _____
(Signature)			
Received By: _____		Date: _____	Time: _____
(Signature)			
Relinquished By: _____		Date: _____	Time: _____
(Signature)			
Received By: _____		Date: _____	Time: _____
(Signature)			
Results Reported: <u>Dee A. Jurling</u>		Date: <u>1/31/05</u>	Time: <u>11:17</u>
(Signature)			

SAMPLE ANALYSIS REQUEST

Site Number TBD Sample ID Number/Name IMA-001-SD

Name of Site INDUSTRIAL METAL ^{ALLOY} Collected By MIKE DEATON ID # 51064

Site Location WINSTON-SALEM Date Collected 12/14/04 Time 10:00

Agency: ☐ Hazardous Waste ☐ Solid Waste ☒ Superfund

Sample Type

<u>Environmental</u>	<u>Concentrate</u>	<u>Comments</u>
<input type="checkbox"/> Ground Water (1)	<input type="checkbox"/> Solid (5)	<u>PPE SAMPLE</u>
<input type="checkbox"/> Surface Water (2)	<input type="checkbox"/> Liquid (6)	
<input checked="" type="checkbox"/> Soil (3)	<input type="checkbox"/> Sludge (7)	
<input type="checkbox"/> Other (4)	<input type="checkbox"/> Other (8)	

TCLP Compounds

Inorganic Compounds	Results(mg/l)
<input type="checkbox"/> arsenic	
<input type="checkbox"/> barium	
<input type="checkbox"/> cadmium	
<input type="checkbox"/> chromium	
<input type="checkbox"/> lead	
<input type="checkbox"/> mercury	
<input type="checkbox"/> selenium	
<input type="checkbox"/> silver	
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	

Organic Chemistry

Inorganic Chemistry

Parameter	Results (mg/l)
<input type="checkbox"/> P&T:GC/MS	
<input type="checkbox"/> Acid:B/N Ext.	
<input type="checkbox"/> 2,4-D	
<input type="checkbox"/> 2,4,5-TP(Silvex)	
<input type="checkbox"/> chlordane	
<input type="checkbox"/> heptachlor	
<input type="checkbox"/> hexachlorobenzene	
<input type="checkbox"/> hexachlorobutadiene	
<input type="checkbox"/> endrin	
<input type="checkbox"/> lindane	
<input type="checkbox"/> methoxychlor	
<input type="checkbox"/> toxaphene	
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	

Parameter	Results(mg/l)(mg/kg)
<input checked="" type="checkbox"/> antimony	
<input checked="" type="checkbox"/> arsenic	
<input checked="" type="checkbox"/> barium	
<input checked="" type="checkbox"/> beryllium	
<input checked="" type="checkbox"/> cadmium	
<input checked="" type="checkbox"/> chloride	
<input checked="" type="checkbox"/> chromium	
<input checked="" type="checkbox"/> cobalt	
<input checked="" type="checkbox"/> copper	
<input checked="" type="checkbox"/> fluoride	
<input checked="" type="checkbox"/> iron	
<input checked="" type="checkbox"/> lead	
<input checked="" type="checkbox"/> manganese	
<input checked="" type="checkbox"/> mercury	
<input checked="" type="checkbox"/> nickel	
<input checked="" type="checkbox"/> nitrate	
<input checked="" type="checkbox"/> selenium	
<input checked="" type="checkbox"/> silver	
<input checked="" type="checkbox"/> sulfates	
<input checked="" type="checkbox"/> thallium	
<input checked="" type="checkbox"/> vanadium	
<input checked="" type="checkbox"/> zinc	
<input type="checkbox"/> pH	
<input type="checkbox"/> conductivity	
<input type="checkbox"/> TDS	
<input type="checkbox"/> flash point	
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	

Organic Compounds	Results(mg/l)
<input type="checkbox"/> benzene	
<input type="checkbox"/> carbon tetrachloride	
<input type="checkbox"/> chlordane	
<input type="checkbox"/> chlorobenzene	
<input type="checkbox"/> chloroform	
<input type="checkbox"/> o-cresol	
<input type="checkbox"/> m-cresol	
<input type="checkbox"/> p-cresol	
<input type="checkbox"/> cresol	
<input type="checkbox"/> 1,4-dichlorobenzene	
<input type="checkbox"/> 1,2-dichloroethane	
<input type="checkbox"/> 1,1-dichloroethylene	
<input type="checkbox"/> 2,4-dichloroethylene	
<input type="checkbox"/> heptachlor	
<input type="checkbox"/> hexachlorobenzene	
<input type="checkbox"/> hexachlorobutadiene	
<input type="checkbox"/> hexachloroethane	
<input type="checkbox"/> methyl ethyl ketone	
<input type="checkbox"/> nitrobenzene	
<input type="checkbox"/> pentachlorophenol	
<input type="checkbox"/> pyridine	
<input type="checkbox"/> tetrachloroethylene	
<input type="checkbox"/> trichloroethylene	
<input type="checkbox"/> 2,4,5-trichlorophenol	
<input type="checkbox"/> 2,4,6-trichlorophenol	
<input type="checkbox"/> vinyl chloride	
<input type="checkbox"/> endrin	
<input type="checkbox"/> lindane	
<input type="checkbox"/> methoxychlor	
<input type="checkbox"/> toxaphene	
<input type="checkbox"/> 2,4-D	
<input type="checkbox"/> 2,4,5-TP (Silvex)	

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Date Received 12-15-2004 04:52 RCVD

Date Extracted _____

Date Analyzed _____

Reported By _____

Date Reported _____

Lab Number 12-15-2004 015606

SAMPLE ANALYSIS REQUEST

Site Number TBD Sample ID Number/Name IMA-002-SD

Name of Site INDUSTRIAL METAL ALLOY Collected By MIKE DEKTON ID# 51065

Site Location WINSTON-SALEM Date Collected 12/14/04 Time 10:10

Agency: ☐ Hazardous Waste ☐ Solid Waste ☒ Superfund

Sample Type

Environmental

Concentrate

Comments

☐ Ground Water (1) ☐ Solid (5) BACKGROUND SEDIMENT

☐ Surface Water (2) ☐ Liquid (6)

☒ Soil (3) ☐ Sludge (7)

☐ Other (4) ☐ Other (8)

TCLP Compounds

Inorganic Compounds	Results(mg/l)
arsenic	
barium	
cadmium	
chromium	
lead	
mercury	
selenium	
silver	

Organic Chemistry

Inorganic Chemistry

Parameter	Results (mg/l)
P&T:GC/MS	
Acid:B/N Ext.	
2,4-D	
2,4,5-TP(Silvex)	
chlordane	
heptachlor	
hexachlorobenzene	
hexachlorobutadiene	
endrin	
lindane	
methoxychlor	
toxaphene	

Parameter	Results(mg/l)(mg/kg)
<input checked="" type="checkbox"/> antimony	
<input checked="" type="checkbox"/> arsenic	
<input checked="" type="checkbox"/> barium	
<input checked="" type="checkbox"/> beryllium	
<input checked="" type="checkbox"/> cadmium	
<input checked="" type="checkbox"/> chloride	
<input checked="" type="checkbox"/> chromium	
<input checked="" type="checkbox"/> cobalt	
<input checked="" type="checkbox"/> copper	
<input checked="" type="checkbox"/> fluoride	
<input checked="" type="checkbox"/> iron	
<input checked="" type="checkbox"/> lead	
<input checked="" type="checkbox"/> manganese	
<input checked="" type="checkbox"/> mercury	
<input checked="" type="checkbox"/> nickel	
<input checked="" type="checkbox"/> nitrate	
<input checked="" type="checkbox"/> selenium	
<input checked="" type="checkbox"/> silver	
<input checked="" type="checkbox"/> sulfates	
<input checked="" type="checkbox"/> thallium	
<input checked="" type="checkbox"/> vanadium	
<input checked="" type="checkbox"/> zinc	
pH	
conductivity	
TDS	
flash point	

Organic Compounds	Results(mg/l)
benzene	
carbon tetrachloride	
chlordane	
chlorobenzene	
chloroform	
o-cresol	
m-cresol	
p-cresol	
cresol	
1,4-dichlorobenzene	
1,2-dichloroethane	
1,1-dichloroethylene	
2,4-dichloroethylene	
heptachlor	
hexachlorobenzene	
hexachlorobutadiene	
hexachloroethane	
methyl ethyl ketone	
nitrobenzene	
pentachlorophenol	
pyridine	
tetrachloroethylene	
trichloroethylene	
2,4,5-trichlorophenol	
2,4,6-trichlorophenol	
vinyl chloride	
endrin	
lindane	
methoxychlor	
toxaphene	
2,4-D	
2,4,5-TP (Silvex)	

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Date Received 12-15-04 RCV RCVD

Date Extracted

Date Analyzed

Reported By

Date Reported

Lab Number 12-15-2004 015607

SAMPLE ANALYSIS REQUEST

Site Number TBD Sample ID Number/Name IMA-439-SS

Name of Site INDUSTRIAL METAL ALLOY Collected By MIKE DEATON ID # 51066

Site Location WINSTON-SALEM Date Collected 12/14/04 Time 10:15

Agency: ☐ Hazardous Waste ☐ Solid Waste ☒ Superfund

Sample Type

Environmental

Concentrate

Comments

☐ Ground Water (1) ☐ Solid (5) OVERLAND FLOW

☐ Surface Water (2) ☐ Liquid (6) SURFACE SOIL SAMPLE

☒ Soil (3) ☐ Sludge (7) "SOURCE AREA"

☐ Other (4) ☐ Other (8)

TCLP Compounds

Inorganic Compounds	Results(mg/l)
arsenic	
barium	
cadmium	
chromium	
lead	
mercury	
selenium	
silver	

Organic Chemistry

Inorganic Chemistry

Parameter	Results (mg/l)
P&T:GC/MS	
Acid:B/N Ext.	
2,4-D	
2,4,5-TP(Silvex)	
chlordane	
heptachlor	
hexachlorobenzene	
hexachlorobutadiene	
endrin	
lindane	
methoxychlor	
toxaphene	

Parameter	Results(mg/l)(mg/kg)
<input checked="" type="checkbox"/> antimony	
<input checked="" type="checkbox"/> arsenic	
<input checked="" type="checkbox"/> barium	
<input checked="" type="checkbox"/> beryllium	
<input checked="" type="checkbox"/> cadmium	
<input checked="" type="checkbox"/> chloride	
<input checked="" type="checkbox"/> chromium	
<input checked="" type="checkbox"/> cobalt	
<input checked="" type="checkbox"/> copper	
<input checked="" type="checkbox"/> fluoride	
<input checked="" type="checkbox"/> iron	
<input checked="" type="checkbox"/> lead	
<input checked="" type="checkbox"/> manganese	
<input checked="" type="checkbox"/> mercury	
<input checked="" type="checkbox"/> nickel	
<input checked="" type="checkbox"/> nitrate	
<input checked="" type="checkbox"/> selenium	
<input checked="" type="checkbox"/> silver	
<input checked="" type="checkbox"/> sulfates	
<input checked="" type="checkbox"/> thallium	
<input checked="" type="checkbox"/> vanadium	
<input checked="" type="checkbox"/> zinc	
pH	
conductivity	
TDS	
flash point	

Organic Compounds	Results(mg/l)
benzene	
carbon tetrachloride	
chlordane	
chlorobenzene	
chloroform	
o-cresol	
m-cresol	
p-cresol	
cresol	
1,4-dichlorobenzene	
1,2-dichloroethane	
1,1-dichloroethylene	
2,4-dichloroethylene	
heptachlor	
hexachlorobenzene	
hexachlorobutadiene	
hexachloroethane	
methyl ethyl ketone	
nitrobenzene	
pentachlorophenol	
pyridine	
tetrachloroethylene	
trichloroethylene	
2,4,5-trichlorophenol	
2,4,6-trichlorophenol	
vinyl chloride	
endrin	
lindane	
methoxychlor	
toxaphene	
2,4-D	
2,4,5-TP (Silvex)	

FOR LAB USE ONLY

Date Received 12-15-04 P04:52 RCD RCVD

Date Extracted

Date Analyzed

Reported By

Date Reported

Lab Number

12-15-2004 015608

SAMPLE ANALYSIS REQUEST

Site Number TBD Sample ID Number/Name IMA-432-55
Name of Site INDUSTRIAL METAL ^{ALLOY} Collected By MIKE DEATON ID# 51067
Site Location WINSTON-SALEM Date Collected 12/14/04 Time 9:25

Agency: ☐ Hazardous Waste ☐ Solid Waste ☒ Superfund

Sample Type

Environmental

Concentrate

Comments

☐ Ground Water (1) ☐ Solid (5) SOURCE AREA
☐ Surface Water (2) ☐ Liquid (6)
☒ Soil (3) ☐ Sludge (7)
☐ Other (4) ☐ Other (8)

TCLP Compounds

Inorganic Compounds	Results(mg/l)
arsenic	
barium	
cadmium	
chromium	
lead	
mercury	
selenium	
silver	

Organic Chemistry

Inorganic Chemistry

Parameter	Results (mg/l)
P&T:GC/MS	
Acid:B/N Ext.	
2,4-D	
2,4,5-TP(Silvex)	
chlordane	
heptachlor	
hexachlorobenzene	
hexachlorobutadiene	
endrin	
lindane	
methoxychlor	
toxaphene	

Parameter	Results(mg/l)(mg/kg)
<input checked="" type="checkbox"/> antimony	
<input checked="" type="checkbox"/> arsenic	
<input checked="" type="checkbox"/> barium	
<input checked="" type="checkbox"/> beryllium	
<input checked="" type="checkbox"/> cadmium	
<input checked="" type="checkbox"/> chloride	
<input checked="" type="checkbox"/> chromium	
<input checked="" type="checkbox"/> cobalt	
<input checked="" type="checkbox"/> copper	
<input checked="" type="checkbox"/> fluoride	
<input checked="" type="checkbox"/> iron	
<input checked="" type="checkbox"/> lead	
<input checked="" type="checkbox"/> manganese	
<input checked="" type="checkbox"/> mercury	
<input checked="" type="checkbox"/> nickel	
<input checked="" type="checkbox"/> nitrate	
<input checked="" type="checkbox"/> selenium	
<input checked="" type="checkbox"/> silver	
<input checked="" type="checkbox"/> sulfates	
<input checked="" type="checkbox"/> thallium	
<input checked="" type="checkbox"/> vanadium	
<input checked="" type="checkbox"/> zinc	
pH	
conductivity	
TDS	
flash point	

Organic Compounds	Results(mg/l)
benzene	
carbon tetrachloride	
chlordane	
chlorobenzene	
chloroform	
o-cresol	
m-cresol	
p-cresol	
cresol	
1,4-dichlorobenzene	
1,2-dichloroethane	
1,1-dichloroethylene	
2,4-dichloroethylene	
heptachlor	
hexachlorobenzene	
hexachlorobutadiene	
hexachloroethane	
methyl ethyl ketone	
nitrobenzene	
pentachlorophenol	
pyridine	
tetrachloroethylene	
trichloroethylene	
2,4,5-trichlorophenol	
2,4,6-trichlorophenol	
vinyl chloride	
endrin	
lindane	
methoxychlor	
toxaphene	
2,4-D	
2,4,5-TP (Silvex)	

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Date Received 12-15-04 ^{RCV} 04:52 RCVD
Date Extracted _____
Date Analyzed _____
Reported By _____
Date Reported _____
Lab Number 15-2004 015609

SAMPLE ANALYSIS REQUEST

Site Number TBD Sample ID Number/Name IMA-435-SS

Name of Site INDUSTRIAL METAL ALLOY Collected By MIKE DEATON ID # 51068

Site Location WINSTON-SALEM Date Collected 12/14/04 Time 9:30

Agency: ☐ Hazardous Waste ☐ Solid Waste ☒ Superfund

Sample Type

Environmental

Concentrate

Comments

☐ Ground Water (1) ☐ Solid (5) SOURCE AREA

☐ Surface Water (2) ☐ Liquid (6)

☒ Soil (3) ☐ Sludge (7)

☐ Other (4) ☐ Other (8)

TCLP Compounds

Inorganic Compounds	Results(mg/l)
arsenic	
barium	
cadmium	
chromium	
lead	
mercury	
selenium	
silver	

Organic Chemistry

Inorganic Chemistry

Parameter	Results (mg/l)
P&T:GC/MS	
Acid:B/N Ext.	
2,4-D	
2,4,5-TP(Silvex)	
chlordane	
heptachlor	
hexachlorobenzene	
hexachlorobutadiene	
endrin	
lindane	
methoxychlor	
toxaphene	

Parameter	Results(mg/l)(mg/kg)
<input checked="" type="checkbox"/> antimony	
<input checked="" type="checkbox"/> arsenic	
<input checked="" type="checkbox"/> barium	
<input checked="" type="checkbox"/> beryllium	
<input checked="" type="checkbox"/> cadmium	
<input checked="" type="checkbox"/> chloride	
<input checked="" type="checkbox"/> chromium	
<input checked="" type="checkbox"/> cobalt	
<input checked="" type="checkbox"/> copper	
<input checked="" type="checkbox"/> fluoride	
<input checked="" type="checkbox"/> iron	
<input checked="" type="checkbox"/> lead	
<input checked="" type="checkbox"/> manganese	
<input checked="" type="checkbox"/> mercury	
<input checked="" type="checkbox"/> nickel	
<input checked="" type="checkbox"/> nitrate	
<input checked="" type="checkbox"/> selenium	
<input checked="" type="checkbox"/> silver	
<input checked="" type="checkbox"/> sulfates	
<input checked="" type="checkbox"/> thallium	
<input checked="" type="checkbox"/> vanadium	
<input checked="" type="checkbox"/> zinc	
pH	
conductivity	
TDS	
flash point	

Organic Compounds	Results(mg/l)
benzene	
carbon tetrachloride	
chlordane	
chlorobenzene	
chloroform	
o-cresol	
m-cresol	
p-cresol	
cresol	
1,4-dichlorobenzene	
1,2-dichloroethane	
1,1-dichloroethylene	
2,4-dichloroethylene	
heptachlor	
hexachlorobenzene	
hexachlorobutadiene	
hexachloroethane	
methyl ethyl ketone	
nitrobenzene	
pentachlorophenol	
pyridine	
tetrachloroethylene	
trichloroethylene	
2,4,5-trichlorophenol	
2,4,6-trichlorophenol	
vinyl chloride	
endrin	
lindane	
methoxychlor	
toxaphene	
2,4-D	
2,4,5-TP (Silvex)	

FOR LAB USE ONLY

Date Received 12-15-04 P04:52 RCVD

Date Extracted

Date Analyzed

Reported By

Date Reported

Lab Number 12-15-2004 015610

SAMPLE ANALYSIS REQUEST

Site Number TBD

Sample ID Number /Name IMA-001-SD

Name of Site Industrial Metal Alloy

Collected By Mike Deaton ID# 51064

Site Location Winston-Salem

Date Collected 12/14/04 Time 10:00

Agency: Hazardous Waste Solid Waste ☒ Superfund

Sample Type

Environmental

Concentrate

Comments

 Ground Water (1) Solid (5) PPE Sample

 Surface water (2) Liquid (6)

☒ Soil (3) Sludge (7)

 Other (4) Other (8)

Organic Chemistry		Inorganic Chemistry	
Parameter	Results(mg/l)	Parameter	Results(mg/l)(mg/kg)
<u> </u> P&T:GC/MS	<u> </u>	<input checked="" type="checkbox"/> antimony	<u><6</u>
<u> </u> Acid:B/N Ext.	<u> </u>	<input checked="" type="checkbox"/> arsenic	<u>4</u>
<u> </u> 2,4-D	<u> </u>	<input checked="" type="checkbox"/> barium	<u>56</u>
<u> </u> 2,4,5-TP	<u> </u>	<input checked="" type="checkbox"/> beryllium	<u><4</u>
<u> </u> chlordane	<u> </u>	<input checked="" type="checkbox"/> cadmium	<u><4</u>
<u> </u> heptachlor	<u> </u>	<u> </u> chloride	<u> </u>
<u> </u> hexachlorbenzene	<u> </u>	<input checked="" type="checkbox"/> chromium	<u>44</u>
<u> </u> hexachlorbutadiene	<u> </u>	<input checked="" type="checkbox"/> cobalt	<u>4</u>
<u> </u> endrin	<u> </u>	<input checked="" type="checkbox"/> copper	<u>8</u>
<u> </u> lindane	<u> </u>	<u> </u> fluoride	<u> </u>
<u> </u> methoxychlor	<u> </u>	<input checked="" type="checkbox"/> iron	<u>8930</u>
<u> </u> toxaphene	<u> </u>	<input checked="" type="checkbox"/> lead	<u>20</u>
<u> </u>	<u> </u>	<input checked="" type="checkbox"/> manganese	<u>87</u>
<u> </u>	<u> </u>	<input checked="" type="checkbox"/> mercury	<u><0.01</u>
<u> </u>	<u> </u>	<input checked="" type="checkbox"/> nickel	<u>4</u>
<u> </u>	<u> </u>	<u> </u> nitrate	<u> </u>
<u> </u>	<u> </u>	<input checked="" type="checkbox"/> selenium	<u>6</u>
<u> </u>	<u> </u>	<input checked="" type="checkbox"/> silver	<u><4</u>
<u> </u>	<u> </u>	<u> </u> sulfates	<u> </u>
<u> </u>	<u> </u>	<input checked="" type="checkbox"/> thallium	<u><2</u>
<u> </u>	<u> </u>	<input checked="" type="checkbox"/> vanadium	<u>62</u>
<u> </u>	<u> </u>	<input checked="" type="checkbox"/> zinc	<u>28</u>
<u> </u>	<u> </u>	<u> </u> calcium	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u> conductivity	<u> </u>
<u> </u>	<u> </u>	<u> </u> TDS	<u> </u>
<u> </u>	<u> </u>	<u> </u> Flash point	<u> </u>

Date Received 12-15-04

Date Extracted

Date Analyzed

Reported by DAT

Date Reported 01/31/05

Lab Number 015606

DHS 3191(revised 12/93)

TCLP Compounds

Inorganic Compounds Results (mg/l)

<u> </u> Arsenic	<u> </u>
<u> </u> Barium	<u> </u>
<u> </u> Cadmium	<u> </u>
<u> </u> Chromium	<u> </u>
<u> </u> Lead	<u> </u>
<u> </u> Mercury	<u> </u>
<u> </u> Selenium	<u> </u>
<u> </u> Silver	<u> </u>
<u> </u>	<u> </u>
<u> </u>	<u> </u>

Organic Compounds Results (mg/l)

<u> </u> benzene	<u> </u>
<u> </u> carbon tetrachloride	<u> </u>
<u> </u> chlordane	<u> </u>
<u> </u> chlorobenzene	<u> </u>
<u> </u> chloroform	<u> </u>
<u> </u> o-cresol	<u> </u>
<u> </u> m-cresol	<u> </u>
<u> </u> p-cresol	<u> </u>
<u> </u> cresol	<u> </u>
<u> </u> 1,4-dichlorobenzene	<u> </u>
<u> </u> 1,2-dichloroethane	<u> </u>
<u> </u> 1,1- dichloroethylene	<u> </u>
<u> </u> 2,4-dinitrotoluene	<u> </u>
<u> </u> heptachlor	<u> </u>
<u> </u> hexachlorobenzene	<u> </u>
<u> </u> methyl ethyl ketone	<u> </u>
<u> </u> nitrobenzene	<u> </u>
<u> </u> pentachlorophenol	<u> </u>
<u> </u> pyridine	<u> </u>
<u> </u>	<u> </u>
<u> </u> tetrachloroethylene	<u> </u>
<u> </u> trichloroethylene	<u> </u>
<u> </u> 2,4,5-trichlorophenol	<u> </u>
<u> </u> 2,4,6-trichlorophenol	<u> </u>
<u> </u> vinyl chloride	<u> </u>
<u> </u> endrin	<u> </u>
<u> </u> lindane	<u> </u>
<u> </u> methoxychlor	<u> </u>
<u> </u> toxaphene	<u> </u>
<u> </u> 2,4,-D	<u> </u>
<u> </u> 2,4,5-TP (Silvex)	<u> </u>

SAMPLE ANALYSIS REQUEST

Site Number TBD

Sample ID Number /Name IMA-002-SD

Name of Site Industrial Metal Alloy

Collected By Mike Deaton ID# 51065

Site Location Winston-Salem

Date Collected 12/14/04 Time 10:10

Agency: Hazardous Waste Solid Waste ☒ Superfund

Sample Type

Environmental

Concentrate

Comments

 Ground Water (1) Solid (5) Background Sediment

 Surface water (2) Liquid (6)

☒ Soil (3) Sludge (7)

 Other (4) Other (8)

Organic Chemistry		Inorganic Chemistry	
Parameter	Results(mg/l)	Parameter	Results(mg/l)(mg/kg)
<u> </u> P&T:GC/MS <u> </u>	<u> </u>	<input checked="" type="checkbox"/> antimony	<u>53</u>
<u> </u> Acid:B/N Ext. <u> </u>	<u> </u>	<input checked="" type="checkbox"/> arsenic	<u>16</u>
<u> </u> 2,4-D <u> </u>	<u> </u>	<input checked="" type="checkbox"/> barium	<u>139</u>
<u> </u> 2,4,5-TP <u> </u>	<u> </u>	<input checked="" type="checkbox"/> beryllium	<u>4</u>
<u> </u> chlordane <u> </u>	<u> </u>	<input checked="" type="checkbox"/> cadmium	<u><4</u>
<u> </u> heptachlor <u> </u>	<u> </u>	<u> </u> chloride <u> </u>	<u> </u>
<u> </u> hexachlorbenzene <u> </u>	<u> </u>	<input checked="" type="checkbox"/> chromium	<u>106</u>
<u> </u> hexachlorbutadiene <u> </u>	<u> </u>	<input checked="" type="checkbox"/> cobalt	<u>20</u>
<u> </u> endrin <u> </u>	<u> </u>	<input checked="" type="checkbox"/> copper	<u>3317</u>
<u> </u> lindane <u> </u>	<u> </u>	<u> </u> fluoride <u> </u>	<u> </u>
<u> </u> methoxychlor <u> </u>	<u> </u>	<input checked="" type="checkbox"/> iron	<u>148884</u>
<u> </u> toxaphene <u> </u>	<u> </u>	<input checked="" type="checkbox"/> lead	<u>1291</u>
<u> </u> <u> </u>	<u> </u>	<input checked="" type="checkbox"/> manganese	<u>863</u>
<u> </u> <u> </u>	<u> </u>	<input checked="" type="checkbox"/> mercury	<u><0.01</u>
<u> </u> <u> </u>	<u> </u>	<input checked="" type="checkbox"/> nickel	<u>56</u>
<u> </u> <u> </u>	<u> </u>	<u> </u> nitrate <u> </u>	<u> </u>
<u> </u> <u> </u>	<u> </u>	<input checked="" type="checkbox"/> selenium	<u>6</u>
<u> </u> <u> </u>	<u> </u>	<input checked="" type="checkbox"/> silver	<u><4</u>
<u> </u> <u> </u>	<u> </u>	<u> </u> sulfates <u> </u>	<u> </u>
<u> </u> <u> </u>	<u> </u>	<input checked="" type="checkbox"/> thallium	<u><2</u>
<u> </u> <u> </u>	<u> </u>	<input checked="" type="checkbox"/> vanadium	<u>64</u>
<u> </u> <u> </u>	<u> </u>	<input checked="" type="checkbox"/> zinc	<u>384</u>
<u> </u> <u> </u>	<u> </u>	<u> </u> calcium <u> </u>	<u> </u>
<u> </u> <u> </u>	<u> </u>	<u> </u> <u> </u>	<u> </u>
<u> </u> <u> </u>	<u> </u>	<u> </u> conductivity <u> </u>	<u> </u>
<u> </u> <u> </u>	<u> </u>	<u> </u> TDS <u> </u>	<u> </u>
<u> </u> <u> </u>	<u> </u>	<u> </u> Flash point <u> </u>	<u> </u>

Date Received 12-15-04

Date Extracted

Date Analyzed

Reported by DAT

Date Reported 01/31/05

Lab Number 015607

DHS 3191(revised 12/93)

TCLP Compounds

Inorganic Compounds	Results (mg/l)
<u> </u> Arsenic <u> </u>	<u> </u>
<u> </u> Barium <u> </u>	<u> </u>
<u> </u> Cadmium <u> </u>	<u> </u>
<u> </u> Chromium <u> </u>	<u> </u>
<u> </u> Lead <u> </u>	<u> </u>
<u> </u> Mercury <u> </u>	<u> </u>
<u> </u> Selenium <u> </u>	<u> </u>
<u> </u> Silver <u> </u>	<u> </u>
<u> </u> <u> </u>	<u> </u>
<u> </u> <u> </u>	<u> </u>

Organic Compounds	Results (mg/l)
<u> </u> benzene <u> </u>	<u> </u>
<u> </u> carbon tetrachloride <u> </u>	<u> </u>
<u> </u> chlordane <u> </u>	<u> </u>
<u> </u> chlorobenzene <u> </u>	<u> </u>
<u> </u> chloroform <u> </u>	<u> </u>
<u> </u> o-cresol <u> </u>	<u> </u>
<u> </u> m-cresol <u> </u>	<u> </u>
<u> </u> p-cresol <u> </u>	<u> </u>
<u> </u> cresol <u> </u>	<u> </u>
<u> </u> 1,4-dichlorobenzene <u> </u>	<u> </u>
<u> </u> 1,2-dichloroethane <u> </u>	<u> </u>
<u> </u> 1,1- dichloroethylene <u> </u>	<u> </u>
<u> </u> 2,4-dinitrotoluene <u> </u>	<u> </u>
<u> </u> heptachlor <u> </u>	<u> </u>
<u> </u> hexachlorobenzene <u> </u>	<u> </u>
<u> </u> methyl ethyl ketone <u> </u>	<u> </u>
<u> </u> nitrobenzene <u> </u>	<u> </u>
<u> </u> pentachlorophenol <u> </u>	<u> </u>
<u> </u> pyridine <u> </u>	<u> </u>
<u> </u> <u> </u>	<u> </u>
<u> </u> tetrachloroethylene <u> </u>	<u> </u>
<u> </u> trichloroethylene <u> </u>	<u> </u>
<u> </u> 2,4,5-trichlorophenol <u> </u>	<u> </u>
<u> </u> 2,4,6-trichlorophenol <u> </u>	<u> </u>
<u> </u> vinyl chloride <u> </u>	<u> </u>
<u> </u> endrin <u> </u>	<u> </u>
<u> </u> lindane <u> </u>	<u> </u>
<u> </u> methoxychlor <u> </u>	<u> </u>
<u> </u> toxaphene <u> </u>	<u> </u>
<u> </u> 2,4,-D <u> </u>	<u> </u>
<u> </u> 2,4,5-TP (Silvex) <u> </u>	<u> </u>

SAMPLE ANALYSIS REQUEST

Site Number TBD

Sample ID Number /Name IMA-439-SS

Name of Site Industrial Metal Alloy

Collected By Mike Deaton ID# 51066

Site Location Winston-Salem

Date Collected 12/14/04 Time 10:15

Agency: Hazardous Waste Solid Waste ☒ Superfund

Sample Type

Environmental

Concentrate

Comments

 Ground Water (1) Solid (5) Overland flow surface

 Surface water (2) Liquid (6) soil sample "Source Area"

☒ Soil (3) Sludge (7)

 Other (4) Other (8)

Organic Chemistry		Inorganic Chemistry	
Parameter	Results(mg/l)	Parameter	Results(mg/l)(mg/kg)
<u> </u> P&T:GC/MS	<u> </u>	<input checked="" type="checkbox"/> antimony	<u>2896</u>
<u> </u> Acid:B/N Ext.	<u> </u>	<input checked="" type="checkbox"/> arsenic	<u>68</u>
<u> </u> 2,4-D	<u> </u>	<input checked="" type="checkbox"/> barium	<u>193</u>
<u> </u> 2,4,5-TP	<u> </u>	<input checked="" type="checkbox"/> beryllium	<u><4</u>
<u> </u> chlordane	<u> </u>	<input checked="" type="checkbox"/> cadmium	<u><4</u>
<u> </u> heptachlor	<u> </u>	<u> </u> chloride	<u> </u>
<u> </u> hexachlorbenzene	<u> </u>	<input checked="" type="checkbox"/> chromium	<u>151</u>
<u> </u> hexachlorbutadiene	<u> </u>	<input checked="" type="checkbox"/> cobalt	<u>14</u>
<u> </u> endrin	<u> </u>	<input checked="" type="checkbox"/> copper	<u>10181</u>
<u> </u> lindane	<u> </u>	<u> </u> fluoride	<u> </u>
<u> </u> methoxychlor	<u> </u>	<input checked="" type="checkbox"/> iron	<u>105299</u>
<u> </u> toxaphene	<u> </u>	<input checked="" type="checkbox"/> lead	<u>113821</u>
<u> </u>	<u> </u>	<input checked="" type="checkbox"/> manganese	<u>448</u>
<u> </u>	<u> </u>	<input checked="" type="checkbox"/> mercury	<u><0.01</u>
<u> </u>	<u> </u>	<input checked="" type="checkbox"/> nickel	<u>74</u>
<u> </u>	<u> </u>	<u> </u> nitrate	<u> </u>
<u> </u>	<u> </u>	<input checked="" type="checkbox"/> selenium	<u><6</u>
<u> </u>	<u> </u>	<input checked="" type="checkbox"/> silver	<u>88</u>
<u> </u>	<u> </u>	<u> </u> sulfates	<u> </u>
<u> </u>	<u> </u>	<input checked="" type="checkbox"/> thallium	<u><2</u>
<u> </u>	<u> </u>	<input checked="" type="checkbox"/> vanadium	<u>56</u>
<u> </u>	<u> </u>	<input checked="" type="checkbox"/> zinc	<u>9486</u>
<u> </u>	<u> </u>	<u> </u> calcium	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u> conductivity	<u> </u>
<u> </u>	<u> </u>	<u> </u> TDS	<u> </u>
<u> </u>	<u> </u>	<u> </u> Flash point	<u> </u>

Date Received 12-15-04

Date Extracted

Date Analyzed

Reported by DAT

Date Reported 01/31/05

Lab Number 015608

DHS 3191(revised 12/93)

TCLP Compounds

Inorganic Compounds Results (mg/l)

 Arsenic

 Barium

 Cadmium

 Chromium

 Lead

 Mercury

 Selenium

 Silver

Organic Compounds Results (mg/l)

 benzene

 carbon tetrachloride

 chlordane

 chlorobenzene

 chloroform

 o-cresol

 m-cresol

 p-cresol

 cresol

 1,4-dichlorobenzene

 1,2-dichloroethane

 1,1- dichloroethylene

 2,4-dinitrotoluene

 heptachlor

 hexachlorobenzene

 methyl ethyl ketone

 nitrobenzene

 pentachlorophenol

 pyridine

 tetrachloroethylene

 trichloroethylene

 2,4,5-trichlorophenol

 2,4,6-trichlorophenol

 vinyl chloride

 endrin

 lindane

 methoxychlor

 toxaphene

 2,4,-D

 2,4,5-TP (Silvex)

SAMPLE ANALYSIS REQUEST

Site Number TBD

Sample ID Number /Name IMA-432-SS

Name of Site Industrial Metal Alloy

Collected By Mike Deaton ID# 51067

Site Location Winston-Salem

Date Collected 12/14/04 Time 9:25

Agency: Hazardous Waste Solid Waste ☒ Superfund

Sample Type

Environmental

Concentrate

Comments

 Ground Water (1) Solid (5) Source Area

 Surface water (2) Liquid (6)

☒ Soil (3) Sludge (7)

 Other (4) Other (8)

Organic Chemistry		Inorganic Chemistry	
Parameter	Results(mg/l)	Parameter	Results(mg/l)(mg/kg)
<u> </u> P&T:GC/MS <u> </u>	<u> </u>	<input checked="" type="checkbox"/> antimony	<u>249</u>
<u> </u> Acid:B/N Ext. <u> </u>	<u> </u>	<input checked="" type="checkbox"/> arsenic	<u>32</u>
<u> </u> 2,4-D <u> </u>	<u> </u>	<input checked="" type="checkbox"/> barium	<u>169</u>
<u> </u> 2,4,5-TP <u> </u>	<u> </u>	<input checked="" type="checkbox"/> beryllium	<u><4</u>
<u> </u> chlordane <u> </u>	<u> </u>	<input checked="" type="checkbox"/> cadmium	<u>4</u>
<u> </u> heptachlor <u> </u>	<u> </u>	<u> </u> chloride <u> </u>	<u> </u>
<u> </u> hexachlorbenzene <u> </u>	<u> </u>	<input checked="" type="checkbox"/> chromium	<u>105</u>
<u> </u> hexachlorbutadiene <u> </u>	<u> </u>	<input checked="" type="checkbox"/> cobalt	<u>20</u>
<u> </u> endrin <u> </u>	<u> </u>	<input checked="" type="checkbox"/> copper	<u>1406</u>
<u> </u> lindane <u> </u>	<u> </u>	<u> </u> fluoride <u> </u>	<u> </u>
<u> </u> methoxychlor <u> </u>	<u> </u>	<input checked="" type="checkbox"/> iron	<u>90239</u>
<u> </u> toxaphene <u> </u>	<u> </u>	<input checked="" type="checkbox"/> lead	<u>16203</u>
<u> </u> <u> </u>	<u> </u>	<input checked="" type="checkbox"/> manganese	<u>541</u>
<u> </u> <u> </u>	<u> </u>	<input checked="" type="checkbox"/> mercury	<u><0.01</u>
<u> </u> <u> </u>	<u> </u>	<input checked="" type="checkbox"/> nickel	<u>66</u>
<u> </u> <u> </u>	<u> </u>	<u> </u> nitrate <u> </u>	<u> </u>
<u> </u> <u> </u>	<u> </u>	<input checked="" type="checkbox"/> selenium	<u><6</u>
<u> </u> <u> </u>	<u> </u>	<input checked="" type="checkbox"/> silver	<u><4</u>
<u> </u> <u> </u>	<u> </u>	<u> </u> sulfates <u> </u>	<u> </u>
<u> </u> <u> </u>	<u> </u>	<input checked="" type="checkbox"/> thallium	<u><2</u>
<u> </u> <u> </u>	<u> </u>	<input checked="" type="checkbox"/> vanadium	<u>159</u>
<u> </u> <u> </u>	<u> </u>	<input checked="" type="checkbox"/> zinc	<u>2262</u>
<u> </u> <u> </u>	<u> </u>	<u> </u> calcium <u> </u>	<u> </u>
<u> </u> <u> </u>	<u> </u>	<u> </u> <u> </u>	<u> </u>
<u> </u> <u> </u>	<u> </u>	<u> </u> conductivity <u> </u>	<u> </u>
<u> </u> <u> </u>	<u> </u>	<u> </u> TDS <u> </u>	<u> </u>
<u> </u> <u> </u>	<u> </u>	<u> </u> Flash point <u> </u>	<u> </u>

Date Received 12-15-04

Date Extracted

Date Analyzed

Reported by DA

Date Reported 1/31/05

Lab Number 015609

DHS 3191(revised 12/93)

TCLP Compounds

Inorganic Compounds Results (mg/l)

 Arsenic

 Barium

 Cadmium

 Chromium

 Lead

 Mercury

 Selenium

 Silver

Organic Compounds Results (mg/l)

 benzene

 carbon tetrachloride

 chlordane

 chlorobenzene

 chloroform

 o-cresol

 m-cresol

 p-cresol

 cresol

 1,4-dichlorobenzene

 1,2-dichloroethane

 1,1- dichloroethylene

 2,4-dinitrotoluene

 heptachlor

 hexachlorobenzene

 methyl ethyl ketone

 nitrobenzene

 pentachlorophenol

 pyridine

 tetrachloroethylene

 trichloroethylene

 2,4,5-trichlorophenol

 2,4,6-trichlorophenol

 vinyl chloride

 endrin

 lindane

 methoxychlor

 toxaphene

 2,4,-D

 2,4,5-TP (Silvex)

SAMPLE ANALYSIS REQUEST

Site Number TBD

Sample ID Number /Name IMA-435-SS

Name of Site Industrial Metal Alloy

Collected By Mike Deaton ID# 51068

Site Location Winston-Salem

Date Collected 12/14/04 Time 9:30

Agency: Hazardous Waste Solid Waste ☒ Superfund

Sample Type

Environmental

Concentrate

Comments

 Ground Water (1) Solid (5) Source Area

 Surface water (2) Liquid (6)

☒ Soil (3) Sludge (7)

 Other (4) Other (8)

Organic Chemistry		Inorganic Chemistry	
Parameter	Results(mg/l)	Parameter	Results(mg/l)(mg/kg)
<u> </u> P&T:GC/MS <u> </u>	<u> </u>	<input checked="" type="checkbox"/> antimony	<u> </u> 35
<u> </u> Acid:B/N Ext. <u> </u>	<u> </u>	<input checked="" type="checkbox"/> arsenic	<u> </u> 54
<u> </u> 2,4-D <u> </u>	<u> </u>	<input checked="" type="checkbox"/> barium	<u> </u> 1292
<u> </u> 2,4,5-TP <u> </u>	<u> </u>	<input checked="" type="checkbox"/> beryllium	<u> </u> <4
<u> </u> chlordane <u> </u>	<u> </u>	<input checked="" type="checkbox"/> cadmium	<u> </u> 16
<u> </u> heptachlor <u> </u>	<u> </u>	<u> </u> chloride <u> </u>	<u> </u>
<u> </u> hexachlorbenzene <u> </u>	<u> </u>	<input checked="" type="checkbox"/> chromium	<u> </u> 54
<u> </u> hexachlorbutadiene <u> </u>	<u> </u>	<input checked="" type="checkbox"/> cobalt	<u> </u> 24
<u> </u> endrin <u> </u>	<u> </u>	<input checked="" type="checkbox"/> copper	<u> </u> 2528
<u> </u> lindane <u> </u>	<u> </u>	<u> </u> fluoride <u> </u>	<u> </u>
<u> </u> methoxychlor <u> </u>	<u> </u>	<input checked="" type="checkbox"/> iron	<u> </u> 533532
<u> </u> toxaphene <u> </u>	<u> </u>	<input checked="" type="checkbox"/> lead	<u> </u> 1744
<u> </u> <u> </u>	<u> </u>	<input checked="" type="checkbox"/> manganese	<u> </u> 1706
<u> </u> <u> </u>	<u> </u>	<input checked="" type="checkbox"/> mercury	<u> </u> <0.01
<u> </u> <u> </u>	<u> </u>	<input checked="" type="checkbox"/> nickel	<u> </u> 26
<u> </u> <u> </u>	<u> </u>	<u> </u> nitrate <u> </u>	<u> </u>
<u> </u> <u> </u>	<u> </u>	<input checked="" type="checkbox"/> selenium	<u> </u> <26
<u> </u> <u> </u>	<u> </u>	<input checked="" type="checkbox"/> silver	<u> </u> <4
<u> </u> <u> </u>	<u> </u>	<u> </u> sulfates <u> </u>	<u> </u>
<u> </u> <u> </u>	<u> </u>	<input checked="" type="checkbox"/> thallium	<u> </u> <2
<u> </u> <u> </u>	<u> </u>	<input checked="" type="checkbox"/> vanadium	<u> </u> 87
<u> </u> <u> </u>	<u> </u>	<input checked="" type="checkbox"/> zinc	<u> </u> 6444
<u> </u> <u> </u>	<u> </u>	<u> </u> calcium <u> </u>	<u> </u>
<u> </u> <u> </u>	<u> </u>	<u> </u> <u> </u>	<u> </u>
<u> </u> <u> </u>	<u> </u>	<u> </u> conductivity <u> </u>	<u> </u>
<u> </u> <u> </u>	<u> </u>	<u> </u> TDS <u> </u>	<u> </u>
<u> </u> <u> </u>	<u> </u>	<u> </u> Flash point <u> </u>	<u> </u>

Date Received 12-15-04

Date Extracted

Date Analyzed

Reported by DAT

Date Reported 1/31/05

Lab Number 015610

DHS 3191(revised 12/93)

TCLP Compounds

Inorganic Compounds Results (mg/l)

 Arsenic

 Barium

 Cadmium

 Chromium

 Lead

 Mercury

 Selenium

 Silver

Organic Compounds Results (mg/l)

 benzene

 carbon tetrachloride

 chlordane

 chlorobenzene

 chloroform

 o-cresol

 m-cresol

 p-cresol

 cresol

 1,4-dichlorobenzene

 1,2-dichloroethane

 1,1- dichloroethylene

 2,4-dinitrotoluene

 heptachlor

 hexachlorobenzene

 methyl ethyl ketone

 nitrobenzene

 pentachlorophenol

 pyridine

 tetrachloroethylene

 trichloroethylene

 2,4,5-trichlorophenol

 2,4,6-trichlorophenol

 vinyl chloride

 endrin

 lindane

 methoxychlor

 toxaphene

 2,4,-D

 2,4,5-TP (Silvex)

REFERENCE 5

Memorandum

Date: November 19, 2004

To: File

From: Michael S. Deaton, P.E. *Michael S. Deaton*
Environmental Engineer
NC Superfund Section

Subject: Surface Water Intakes

Industrial Metal Alloy Site
Winston-Salem, Forsyth County, NC
EPA ID: TBD

On Thursday, November 18, 2004, Michael Deaton of the NC Superfund Section contacted Mr. Lee Spencer, Regional Engineer for the Winston-Salem Regional Office of the NC Public Water Supply Section, at (336) 771-4608. Mr. Spencer stated that there are no surface water intakes located along Salem Creek, Muddy Creek, or the Yadkin River within the site's 15-mile target distance limit (TDL). The City of Winston-Salem utilizes two surface water intakes to provide drinking water to residents. One surface water intake is located at Salem Lake and another along Yadkin River, which is upstream of the confluence of Muddy Creek and Yadkin River. Both surface water intakes can not be impacted by contaminants attributable to the site. Davidson County operates a surface water intake along the Yadkin River below the bridge crossing at Highway 64. This surface water intake location is beyond the site's 15-mile surface water pathway TDL.

REFERENCE 6

Memorandum

Date: December 7, 2004

To: File

From: Michael S. Deaton, P.E. *Michael S. Deaton*
Environmental Engineer
NC Superfund Section

Subject: Fishery Information

Industrial Metal Alloy Site
Winston-Salem, Forsyth County, NC
EPA ID: TBD

On Tuesday, December 07, 2004, Michael Deaton of the NC Superfund Section contacted Mr. Kin Hodges, District 7 Fisheries Biologist with the NC Wildlife Resource Commission, at (336) 789-3266. The purpose of the conversation was to delineate areas of recreational fishing along Brushy Fork Creek, Salem Creek, Muddy Creek, and Yadkin River. Mr. Hodges explained how these areas have been heavily impacted by urban development and that most of the streams in the area were littered with shopping carts, car parts, and other miscellaneous debris. The most heavily used waters for recreational fishing in Winston-Salem are the impoundments located at Salem Lake and Winston Lake. However, neither of the impoundments is located along the 15-mile target distance limit (TDL) for the overland flow surface water pathway. Some segments along Salem Creek and Muddy Creek could be considered minimal fisheries. Small catfish, chub, and brim can be found in these areas. Yadkin River is used extensively as a recreational fishery.

PHOTOGRAPHS



PHOTO 1

Typical slag boulder found in rear of property.



PHOTO 2

Waste slag/debris pile located in rear of property.



PHOTO 3

Waste metal debris pile located in rear of property.



PHOTO 4

Overland flow drainage ditch located in rear of property.



PHOTO 5

Nearby residences located across unnamed tributary.



PHOTO 6

Unnamed tributary located between site and nearby residences.



PHOTO 7

Evidence of unauthorized access to property.



PHOTO 8

Evidence of unauthorized access to property.



North Carolina Department of Environment and Natural Resources

Dexter R. Matthews, Director

Division of Waste Management

Michael F. Easley, Governor
William G. Ross Jr., Secretary

June 3, 2005

Mr. Matthew Taylor, Chief
Removal Operations Section
Emergency Response and Removal Branch
US EPA Region 4 Waste Division
61 Forsyth Street, S.W.
Atlanta, Georgia 30303-8960

Subject: Immediate Removal Evaluation Request
Industrial Metal Alloy
EPA ID: NCD
Winston-Salem, Forsyth County, North Carolina

Dear Mr. Taylor,

The NC Superfund Section requests that the EPA evaluate the Industrial Metal Alloy site for a possible removal action. On December 14, 2004 the NC Superfund Section performed a site screening sampling event at the Industrial Metal Alloy site located at 20 E. Acadia Avenue in Winston-Salem, Forsyth County, NC. This site operated as a non-ferrous metal operation prior to 1950. During this trip a portable x-ray fluorescence (XRF) meter was used to field screen soil locations to be collected for analytical analysis. These samples documented on-site soil contamination with lead (113,821 mg/kg), arsenic (68 mg/kg), chromium (151 mg/kg), and copper (10,181 mg/kg). Sediments sampled from an unnamed tributary bordering the south side of the property documented contamination with lead (1,291 mg/kg), arsenic (16 mg/kg), chromium (106 mg/kg), and copper (3,317 mg/kg). The southern portion of the property, where the samples were collected, and the stream are used by the local children for recreational purposes. Based on unrestricted access to the contaminated soils on-site and the contaminated sediments in the unnamed tributary along with the possibility of airborne deposition of these same contaminants to the surrounding residential area, the NC Superfund Section is requesting this evaluation for a possible removal action. State funds for this removal are not available at this time.

Jennifer Wendel, NC Site Management Section, Region IV, has discussed with James Bateson, NC Site Evaluation and Removal Branch Head, the possibility of combining a removal evaluation conducted by Region IV SESD with a combined Preliminary Assessment/Site Inspection investigation conducted by NC Superfund. We would utilize the SESD's experience with public relations and site access along with NC Superfund's personnel and equipment availability (extra XRF unit).

Please feel free to contact me at (919) 508-8488 or by e-mail at harry.zinn@ncmail.net if you have any questions.

Sincerely,

Harry Zinn, Environmental Engineer
Site Evaluation and Removal Branch
NC Superfund Section

Jim Bateson, Head
Site Evaluation and Removal Branch
NC Superfund Section

attachments

cc: Charlotte Jesneck (letter only)

Attachment to the Immediate Removal Evaluation Request for Industrial Metal Alloy Winston-Salem, Forsyth County, North Carolina, consisted of the Pre-CERCLIS Site Screening dated February 16, 2005.